

Report # 104632 Sample # 1

Hunlock Creek Energy Center

Received 06/07/2011 D

2011 Date June 16, 2011

Filter LTC:	LTC Capacity:	LTC Tank Type :	LTC Type:	LTC MFR./Model:
Pressure PSI:		Appr Type: XFMR	XFMR Oil Capacity: 4087 Gallons	Fluid Type: Mineral
Fluid Level:	6/3/2011 10:00	Sample Date/By: 6/3/2011	Maximum MVA: 65	Cooling System: ONAF
Peak Lemp "C:		Sequence #:	Maximum kV: 66	MFR. Year: 2010
Top Oil Temp °C: 34	Sample Point: Main Tank Bottom	Sample Point:	Transformer Type: Transformer	Manufacturer: GEP
Humidity: 50	Second Name: Hunlock Creek	Second Name:	Transformer Name: T6	Design Type: Shell Type
Ambient Temp °C: 25		Miscellaneous Id:	Preservation System: Gas Blanketed	Substation Name: New 69KV Sub
Phase: 3	Container Id: LAB ASSIGNED # 5133	Container ld:	Equipment Number: GSU T6	Serial Number: G244202

Values before August 15, 2002 are reported at NTP and calibrated with gas standards. Dissolved Gas Analysis The dissolved gas analysis is run in accordance with ASTM D 3612 and IEC 60567. Values are reported in ppm vol/vol at STP and calibrated with gas-in-oil standards.

	0.00	2	09403	0 0	,	190	0 193	0/		70000	2.5 18400 /0800 0		34	06/03/2011 34	104632
	0 07	70	23/08	•	5	105	•	67	>	70000	40 400				
Ω	%	GAS	Total Gas	(C2H2) Total Gas	(C2H4)	(CO2)	(C2H6)	(CO)	(CH4)	(N2)	(02)	(H2)	Temp °C	Date	Report #
C2H4/ Comb Gas	ESTITCG	COMB		Acetylene	Ethylene	Dioxide	Ethane	Monox.	Methane	Nitrogen	Oxygen		Top Oil	Sample	
2						Carbon		Carbon							

There is a low volume of combustible gas present. The condition is of no immediate concern. It is recommended to resample in 1 year for units 69kV and below.

Oil Quality Tests

104632			Report #
06/03/2011			Sample Date
34			Top Oil Temp °C
7	D1533 IEC 60814	ppm	Water Content
7		%	Relative Saturation
L 0.5	D1500		Color
34	D1816	k۷	D1816- 1mm
50	D971 ISO 6295	mN/m	Interfacial Tension
< 0.01	D974	mgKOH/g	Neut. No.
0.004	D924	%	PF25C
0.242	D924	%	PF 100C
0.886	D1298	60/60	Specific Gravity
Clear & Bright	D1524		Visual

The water content as reported in relative saturation is good for in-service fluid. The results indicate that the dielectric liquid is acceptable for continued in-service use.